

March 27, 2014

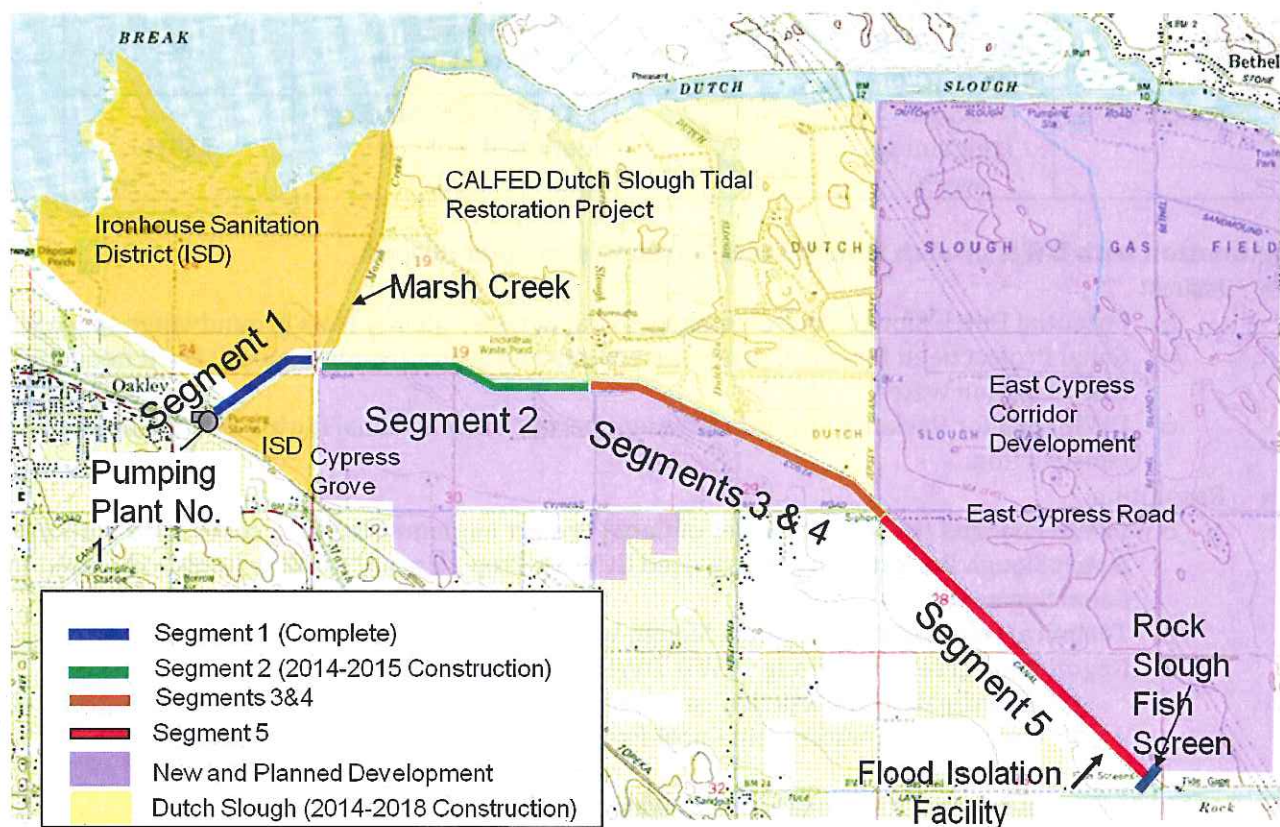
## Contra Costa Canal Levee Elimination and Flood Control Project

### Contra Costa Canal

- A 44-mile water conveyance facility serving drinking water to 500,000 people in Contra Costa County.
- The upstream 4-mile portion was built in the 1930s as an unlined canal, with embankments constructed of unconsolidated dredge spoils.
- Adjacent to DWR's Dutch Slough Tidal Marsh Restoration Project.

### Project Description

- Replace unlined, earthen canal with buried 10-foot diameter reinforced concrete pipeline.
- Segment 1, the westernmost 0.4 miles of unlined canal, was encased in 2009.
- Segment 2, to be built in 2014 - 2015, will extend the encased canal 1 mile further east.
- The remaining segments of the Canal Project will be implemented as funding is developed.



### Project Benefits

- Reduced Flood Risk – replaces non-engineered, non-FEMA approved Canal berms and adds a flood isolation structure for isolation of the Canal from the Delta in the event of a levee breach.
- Improved Drinking Water Quality – eliminates seepage of poor-quality groundwater into the unlined Canal.
- Improved CVP and SWP operations – improved water quality will reduce the need for releases from upstream CVP and SWP reservoirs to meet Delta salinity objectives.
- Reduced Herbicide Application – allows reduced application of herbicide by limiting the growth of aquatic plants that create blockages in the Canal.

### Permitting

- CEQA and NEPA complete for all segments.
- Permitting complete for Segment 2, including ACOE, RWQCB, CDFW, USFWS, NMFS, and reclamation district permits.
- Mitigation complete for all segments.

### Funding

Canal Segment	Estimated Project Cost	Funding Identified	Funding Sources	Funding Needed
Segment 1	\$19M (completed work)	\$19M	\$ 2 M Prop. 40 \$ 10 M Prop 13 \$ 0.2 M federal grant \$ 1.5 M Prop 50 \$ 5.3 M local match	0
Segment 2	\$21M (2013 - 2015 ongoing work)	\$21M	\$ 10 M Prop. 1E \$ 11 M local match	0
Segments 3-5	\$50M (remaining work)	\$23 M (pending)	\$ 23 M WRDA funding identified, not yet appropriated.	\$50M

### Coordination with DWR's Dutch Slough Tidal Marsh Restoration Project

- Issues:
  - Potential Dutch Slough Project impacts to Canal water quality from groundwater seepage.
  - Canal Project need for construction easements and groundwater disposal; DWR need for tule irrigation water.
  - DWR need for Reclamation encroachment permit to cross Canal during Dutch Slough construction.
- Resolution:
  - CCWD changed the planned order of Canal Project implementation to coordinate with the Dutch Slough Project, and DWR revised CCWD's Prop 1E grant to allow funds to be used for Canal Segment 2.
  - Technical collaboration on Dutch Slough water quality impacts assessment.
  - Negotiated agreement among CCWD, DWR, and DWR tenants, providing:
    - coordinated construction easements or temporary entry permits for both projects
    - construction water from Canal Project will be used to irrigate Dutch Slough properties
    - new mitigation measures for water quality impacts
    - CCWD will not challenge the Dutch Slough environmental documentation or make claims for damages.